

Title (en)

5-Ring heterocycles as inhibitors of leukocyte adhesion and as VLA-4 antagonists

Title (de)

5-Ring-Heterocyclen als Inhibitoren der Leukozytenadhäsion und VLA-4-Antagonisten

Title (fr)

Hétérocycles à cinq chaînons à titre d'inhibiteurs d'adhésion des leucocytes et d'antagonistes de VLA-4

Publication

EP 0842943 A3 19990224 (DE)

Application

EP 97119638 A 19971110

Priority

DE 19647380 A 19961115

Abstract (en)

[origin: EP0842943A2] Use of N-substituted pyrrolidone, imidazolidinone, oxazolidinone or thiazolidinone derivatives of formula (I), in all stereoisomer (or mixture) forms, or their salts for inhibiting the adhesion and/or migration of leukocytes or inhibiting VLA-4 receptors is new. W = R1-A-CR13 or R1A-CH=C; Y = CO, CS or CH2; Z = O, S or CH2 etc.; A = 1-6C alkylene, 3-7C cycloalkylene, (1-6C) alkylene-phenylene, or the divalent residue of a 5- or 6-membered ring containing 1 or 2 N (optionally substituted); B = 1-6C alkylene (optionally substituted), 2-6C alkenylene, phenylene, phenylene-(1-3C) alkyl or (1-3C) alkylene-phenylene; D = CR2R3, NR3 or CH=CR3; E = tetrazolyl, SO3H etc.; R = H, alkyl, 3-8C cycloalkyl, Ar or Ar-alkyl; R1 = X-NH-C(=NH)-(CH2)p or X1-NH-(CH2)p; p = 0-3; X = H, 1-6C alkyl, (1-6C) alkylcarbonyl, Ar-(1-6C) alkoxy carbonyl, CN, OH, etc.; X1 = X etc.; R2 = H, alkyl, Ar, Ar-alkyl or 3-8C cycloalkyl; R3 = H, alkyl, Ar, alkenyl, alkynyl, pyridyl etc.; R13 = H, 1-6C alkyl, Ar-alkyl or 3-8C cycloalkyl; b, c, d, f = 0 or 1, but not all 0; e, g, h = 0-6; Ar = optionally substituted 6-14C aryl; unless specified otherwise alkyl moieties have 1-8C, alkenyl or alkynyl moieties 2-8C, cycloalkyl moieties 3-12C and bi- or tri-cycloalkyl moieties 6-12C.

IPC 1-7

C07K 5/023; **C07K 5/097**; **C07K 5/117**; **C07K 14/78**; **A61K 38/06**; **A61K 38/07**; **A61K 38/39**

IPC 8 full level

A61K 31/415 (2006.01); **A61K 31/4166** (2006.01); **A61K 31/4178** (2006.01); **A61K 31/421** (2006.01); **A61K 31/426** (2006.01); **A61K 38/00** (2006.01); **A61K 38/06** (2006.01); **C07D 233/00** (2006.01); **A61K 38/07** (2006.01); **A61K 38/39** (2006.01); **A61P 3/08** (2006.01); **A61P 9/00** (2006.01); **A61P 9/10** (2006.01); **A61P 11/00** (2006.01); **A61P 19/02** (2006.01); **A61P 29/00** (2006.01); **A61P 33/02** (2006.01); **A61P 35/00** (2006.01); **A61P 37/00** (2006.01); **A61P 37/08** (2006.01); **A61P 43/00** (2006.01); **C07D 233/32** (2006.01); **C07D 233/72** (2006.01); **C07D 233/74** (2006.01); **C07D 233/76** (2006.01); **C07D 233/86** (2006.01); **C07D 403/12** (2006.01); **C07D 405/12** (2006.01); **C07K 5/02** (2006.01); **C07K 5/023** (2006.01); **C07K 5/078** (2006.01); **C07K 5/08** (2006.01); **C07K 5/097** (2006.01); **C07K 5/10** (2006.01); **C07K 5/117** (2006.01); **C07K 7/06** (2006.01); **C07K 14/78** (2006.01); **C07D 257/00** (2006.01)

CPC (source: EP KR US)

A61K 38/00 (2013.01 - KR); **A61P 3/08** (2018.01 - EP); **A61P 9/00** (2018.01 - EP); **A61P 9/10** (2018.01 - EP); **A61P 11/00** (2018.01 - EP); **A61P 19/02** (2018.01 - EP); **A61P 29/00** (2018.01 - EP); **A61P 33/02** (2018.01 - EP); **A61P 35/00** (2018.01 - EP); **A61P 37/00** (2018.01 - EP); **A61P 37/08** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07D 233/76** (2013.01 - KR); **C07D 401/12** (2013.01 - KR); **C07K 5/0202** (2013.01 - EP US); **C07K 5/021** (2013.01 - KR); **C07K 5/06139** (2013.01 - KR); **C07K 5/0821** (2013.01 - EP KR US); **C07K 5/1024** (2013.01 - EP US); **C07K 7/06** (2013.01 - EP US); **A61K 38/00** (2013.01 - EP US); **Y02A 50/30** (2018.01 - EP US); **Y02P 20/55** (2015.11 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0842943 A2 19980520; **EP 0842943 A3 19990224**; **EP 0842943 B1 20030226**; AR 010067 A1 20000517; AT E233276 T1 20030315; AU 4515997 A 19980521; AU 747789 B2 20020523; BR 9705727 A 20000321; CA 2220784 A1 19980515; CN 1135236 C 20040121; CN 1187490 A 19980715; CZ 293351 B6 20040414; CZ 359997 A3 19980617; DE 19647380 A1 19980520; DE 59709383 D1 20030403; DK 0842943 T3 20030602; ES 2190503 T3 20030801; HR P970605 A2 19980831; HR P970605 B1 20030831; HU 9702035 D0 19980128; HU P9702035 A2 19980728; HU P9702035 A3 19981228; ID 19010 A 19980604; IL 122188 A0 19980405; JP H10147573 A 19980602; KR 19980042457 A 19980817; MX 9708782 A 19980531; MY 119617 A 20050630; NO 317241 B1 20040927; NO 975244 D0 19971114; NO 975244 L 19980518; NZ 329178 A 20010126; PL 323128 A1 19980525; PT 842943 E 20030731; RU 2229296 C2 20040527; SI 0842943 T1 20030831; SK 152697 A3 19980603; SK 284377 B6 20050204; TR 199701354 A2 19980622; TR 199701354 A3 19980622; TW 496874 B 20020801; US 2004220148 A1 20041104; ZA 9710244 B 19980515

DOCDB simple family (application)

EP 97119638 A 19971110; AR P970105302 A 19971113; AT 97119638 T 19971110; AU 4515997 A 19971113; BR 9705727 A 19971214; CA 2220784 A 19971112; CN 97122684 A 19971114; CZ 359997 A 19971113; DE 19647380 A 19961115; DE 59709383 T 19971110; DK 97119638 T 19971110; ES 97119638 T 19971110; HR P970605 A 19971113; HU P9702035 A 19971114; ID 973670 A 19971113; IL 12218897 A 19971113; JP 32970297 A 19971114; KR 19970060196 A 19971115; MX 9708782 A 19971114; MY P19705419 A 19971113;

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SI 9730524 T 19971110; SK 152697 A 19971113; TR 9701354 A 19971113; TW 86116879 A 19971113; US 69163003 A 20031024;
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